Subject: Re: back-propagation with GEANE
Posted by StefanoSpataro on Wed, 19 May 2010 17:25:23 GMT
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Hi,
I would use use:

fPro->SetPoint(vtx);
fPro->PropagateToPCA(1,-1);
fPro->Propagate(fStart, fRes, PDGCode);

instead of:

fPro->SetPoint(vtx);
fPro->BackTrackToVirtualPlaneAtPCA(1);//1 means "closest approach to point"
fPro->Propagate(fStart, fRes, PDGCode);

I am not sure the function BackTrackToVirtualPlaneAtPCA is the one you need, but I sould wrong.

What are you using as StartO, StartU, StartV?

Another comment:

PndMCTrack* myTrack = (PndMCTrack*)(fMCTracks->At(0));

//Get Start point and momentum from MC
PndSdsMCPoint* mcPoint = (PndSdsMCPoint*)(fMCHits->At(0));

I am not sure if this works. You should ask that mcPoint and mcTrack are the same particle: mcPoint->GetTrackID()==0. Without this check, you could also take some secondary and call them "antiprotons".